13   There are 20 boys and 12 girls in a chess club.

Three fifths of the boys have been members for over 2 years.
Two thirds of the girls have been members for over 2 years.

What is the probability that a child taken at random from the chess club has
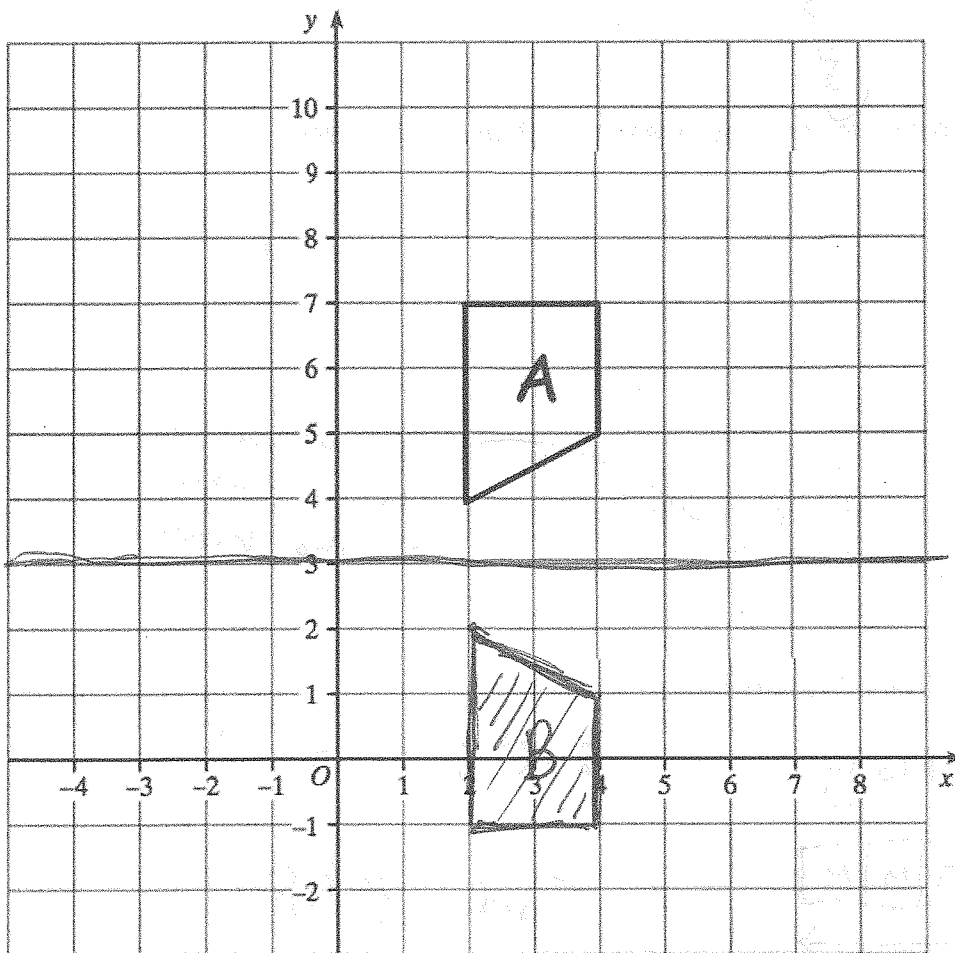been a member for over 2 years?

Boys   Girls

$\frac{2}{5}$ of 20 = 8 $\frac{2}{3}$ of 12 = 8
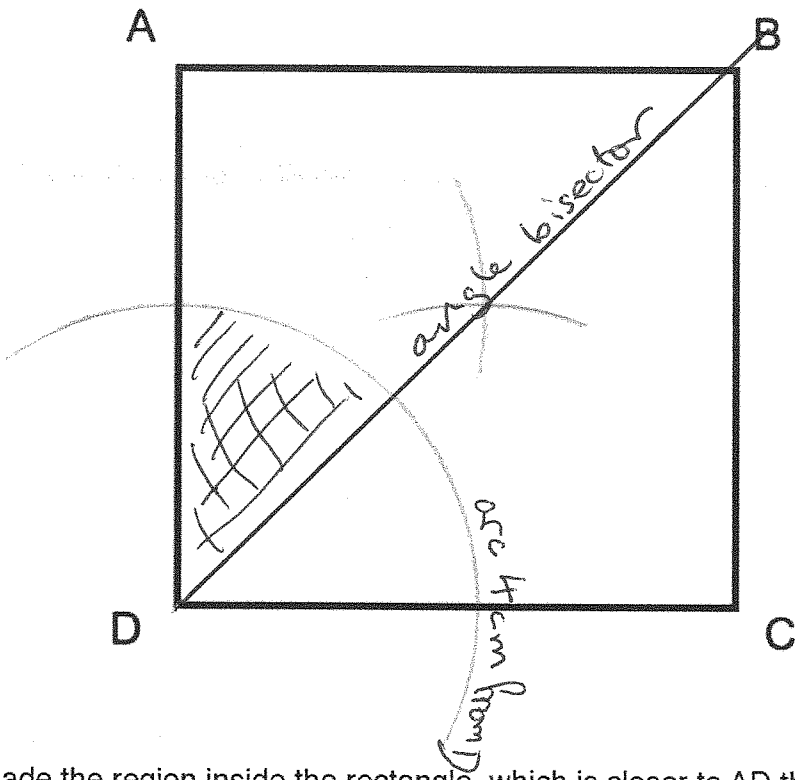
8 + 8 = 16   out of 32

Answer $\frac{16}{32}$ [3]

$y = 3$

Reflect shape A in the line y = 3
Label the new shape B.

(2)

A and B are two points.

A ······· B

angle bisector

arc 4cm from D

D ······· C

Shade the region inside the rectangle, which is closer to AD that DC, and less that 4cm from D.

(3)

Chris and Molly win money in a competition.
They share the money in the ratio 2 : 3
Molly receives £240.

anywhere you
see a ratio
do the blocks.

(a) How much money does Chris receive?

Chris : Molly

| C | C | M | M | M |

←——— 240 ———→

$240 \div 5 = 48$

Each £48

2×48

£ 96

(2)